

MATERIAL SAFETY DATA SHEET

MSDS NUMBER: 600
 PART NUMBER: 0-600-W
 PRODUCT NAME: ENVIRO-CHEM 0-600-W
 CAS NUMBER: 10192-30-0
 CHEMICAL NAME: Ammonium bisulfite 50% catalyzed

SECTION I

MANUFACTURER: Ashland Distribution Services

ADDRESS: P.O. Box 2219
 Columbus, OH 43216

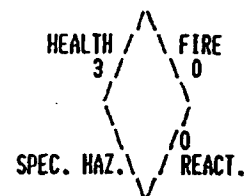
EMERGENCY TELEPHONE NUMBER: (614)889-3333

INFORMATION TELEPHONE NUMBER: (915)563-0255

DATE PREPARED: 09/20/94

HMIS RATINGS:

HEALTH: 3
 FIRE: 0
 REACTIVITY: 0
 PERSONAL PROTECTION: H



SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

CAS NUMBER	HAZARDOUS COMPONENT	NTP	IARC	SUB- PART/Z	SARA 313	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED PERCENT
10192-30-0	Ammonium bisulfite	?	?	?	?	NI	NI	50
7786-81-4	Nickel sulfate	?	?	?	Y	1 MG/M3	0.1 MG/M3	.1

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT	212 F.	SPECIFIC GRAVITY (H2O = 1)	1.25000
VAPOR PRESSURE (mm Hg.)	NI	MELTING POINT	NI
VAPOR DENSITY (AIR = 1)	>1	EVAPORATION RATE (Butyl Acetate = 1)	(ether

SOLUBILITY IN WATER: Complete

APPEARANCE AND ODOR: Clear, Light Green Liquid, Sharp Odor

OTHER INFORMATION:

Viscosity Units = NI pH = 4.5 - 5.5
 Freezing Point = NI Dry Point = NI

Density (Lb./Gal.) = 10.4125

DANGER

Physical Hazards:-
 Corrosive Liquid

Generic Name:- Corrosion Inhibitor

UN/NA Number:- UN 2693

DOT Response Number:- 60

DOT Proper Shipping Name:- Bisulfites, Inorganic, Aqueous Solution N.O.S.

DOT Hazard Class:- 8

DOT Packing Group:- III

DOT/CERCLA RQ:- 5,000 Lbs.

This product contains chemicals which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986. The corresponding CAS numbers and percent by weight are listed above.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A FLAMMABLE LIMITS: LEL: N/A UEL: N/A

EXTINGUISHING MEDIA: Use an extinguishing media appropriate for surrounding fire.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA (Continued)

SPECIAL FIRE FIGHTING PROCEDURES:

Do not enter fire area without proper protection - see Section V - decomposition products possible.

Fight fire from safe distance / protected location.

Use water spray / fog for cooling.

Notify authorities if liquid enters sewer / public waters.

UNUSUAL FIRE FIGHTING PROCEDURES: NI

SECTION V - REACTIVITY DATA

STABILITY: Stable under normal conditions.

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong Mineral Acids, Strong Alkalies, Strong Oxidizing Agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: May Form Sulphur Dioxide, Ammonia.

HAZARDOUS POLYMERIZATION: Cannot Occur.

SECTION VI - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: Skin Contact.

HEALTH HAZARDS (ACUTE AND CHRONIC): Corrosive Liquid.

SIGNS AND SYMPTOMS OF EXPOSURE:

Skin Contact:-

Exposure causes irreversible skin damage. Symptoms may include redness, swelling, burns, and severe skin damage. Pre-existing skin disorders may be aggravated by exposure to this material.

Eye Contact:-

Exposure causes severe eye irritation. Symptoms may include stinging, tearing, redness, swelling and eye damage. Additional symptoms may include blurred vision.

Ingestion:-

Single dose oral toxicity is low. Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful. Symptoms may include gastrointestinal irritation (nausea, vomiting, diarrhea)

Inhalation:-

Coughing and shortness of breath may result. Symptoms may include irritation of the nose, throat and respiratory tract. Pre-existing lung disorders, E.G. asthma-like conditions, may be aggravated by exposure to this material.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Pre-existing skin disorders and/or asthma-like lung disorders.

EMERGENCY AND FIRST AID PROCEDURES:

Inhalation:-

If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

Eye Contact:-

In case of eye contact, immediately rinse with clean water for 20 to 30 minutes. Retract eyelids often. Obtain emergency medical attention.

Skin Contact:-

Immediately remove contaminated clothing. Wash skin with mild soap and water. Flush with lukewarm water for 15 minutes. If sticky, use waterless cleaner first. Obtain emergency medical attention.

Ingestion:-

Seek medical attention. If person is drowsy or unconscious, do not give anything by mouth. Place individual on left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible do not leave person unattended.

Emergency Medical Treatment Procedures:-

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Continue to rinse eyes with clean water for 20 to 30 minutes, retracting eyelids often. Contact ophthalmologist immediately.

Treat burns or allergic reactions conventionally after decontamination. Do not induce vomiting. Administer an aqueous slurry of activated charcoal followed by a cathartic such as magnesium citrate or sorbitol.

OTHER HEALTH WARNINGS:

The toxicological and carcinogenic properties of this material have not been fully investigated. Handle accordingly, avoiding contact.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Equip responders with proper protection (see Section VIII).

SMALL SPILL:-

Absorb liquid on paper, vermiculite, floor absorbent, or other absorbent material, and transfer to hood.

LARGE SPILL:-

Provide adequate ventilation. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Use water spray to disperse vapors and protect involved personnel. Stop spill at source, dike area ahead of spill to prevent spreading, pump liquid into salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and placed in covered containers, if possible, then labeled for disposal.

Prevent run-off into sewers, streams, or other bodies of water. If run-off occurs, notify proper authorities, as required, that a spill has occurred.

WASTE DISPOSAL METHOD:

Comply with Federal / State / Local regulations for disposal. Contact State and Federal regulators to determine whether the material should be classified as a hazardous waste or industrial waste and handled accordingly. Use licensed transporter and disposal facility.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

For transport, handling, and storage, use polyethylene, plastic, lined steel, or stainless steel.
Store in tightly closed containers in cool, dry, isolated and well ventilated area away from incompatible materials.
Use good personal hygiene practices.
Containers of this material may be hazardous when emptied, since emptied containers retain product residues (vapor, liquid, and/or solids), all hazard precautions given in the data sheet must be observed.
Store drums with bungs closed in upright position.

OTHER PRECAUTIONS:

Wash thoroughly after handling.
Do not get in eyes, on skin or clothing.
Do not breathe dust, vapor, mist, or gas.
Keep container closed when not in use.
Empty container may contain hazardous residues.

SECTION VIII - CONTROL MEASURES

VENTILATION REQUIREMENTS:

Either local exhaust or general room ventilation is usually required.

PERSONAL PROTECTIVE EQUIPMENT:

Respiratory Protection:-

If exposure can exceed the PEL/TLV, use only NIOSH/MSHA approved air-purifying or supplied air respirator operated in a positive pressure mode per the NIOSH/OSHA 1981 Occupational Health Guidelines for chemical hazard.

Eye Protection:-

Eye protection, including both chemical splash goggles and face shield when possibility exists for eye contact due to spraying liquid or airborne particles. Contact lenses must not be worn.

Skin Protection:-

Impervious protective suit with gloves, boots, and full head and face protection must be worn. The equipment must be cleaned thoroughly after each use.

Other Hygienic Practices:-

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. Shower after work using plenty of soap and water.

Other Work Practices:-

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Promptly remove soiled clothing / wash thoroughly before reuse.

SECTION IX - ADDITIONAL INFORMATION

ADDITIONAL MANUFACTURER WARNINGS:

For Industrial Use Only.
Keep out of reach of children.
Failure to use caution may cause serious injury or illness.
Never siphon by mouth.

OTHER PRECAUTIONS AND COMMENTS:

Disclaimers:-

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness or results to be obtained from the use thereof.

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SECTION IX - ADDITIONAL INFORMATION (Continued)

The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of, or in any way connected with the handling, storage, use, or disposal of the product.

This MSDS was prepared, and is to be used, only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

This MSDS has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1200).
